

Global Solar PV Carport for NEVs Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solar PV Carport for NEVs market size is expected to reach \$ 561 million by 2032, rising at a market growth of 12.8% CAGR during the forecast period (2026-2032).

The Solar PV Carport for NEVs is a specialized green energy infrastructure system tailored for the new energy vehicle ecosystem, designed to synergize photovoltaic power generation with electric vehicle charging and parking needs. Unlike generic solar canopies, this product is engineered specifically to support the 'source-grid-load-storage' model, acting as a dedicated clean energy hub that directly powers charging piles to facilitate low-carbon mobility. By integrating high-efficiency solar modules with robust parking shelter structures, it transforms passive parking spaces into active energy supply nodes, enabling the localized generation and immediate consumption of green electricity for electric vehicles. Its core strengths include optimized energy matching for EV charging, enhanced land-use efficiency, seamless integration with smart charging networks, and a significant reduction in the carbon footprint of transportation, making it an essential facility for modern green travel and sustainable urban planning. In 2025, the industry's capacity utilization rate was about 65% and the average gross margin was approximately 28%. Upstream, photovoltaic modules and steel structural materials remain the core inputs, with suppliers such as LONGi, Trina Solar, JinkoSolar, First Solar, ArcelorMittal, and POSCO providing standardized generation units and structural frameworks. The midstream segment focuses on canopy structure engineering, green energy system integration, load-bearing design, construction execution, and grid interconnection to ensure reliable operation under site-specific conditions. Downstream demand is primarily driven by residential and commercial scenarios, with representative customers including Vanke, Country Garden, and Wanda Group.

This report studies the global Solar PV Carport for NEVs demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solar PV Carport for NEVs, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Solar PV Carport for NEVs that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solar PV Carport for NEVs total market, 2021-2032, (USD Million)

Global Solar PV Carport for NEVs total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Solar PV Carport for NEVs total market, key domestic companies, and share, (USD Million)

Global Solar PV Carport for NEVs revenue by player, revenue and market share 2021-2026, (USD Million)

Global Solar PV Carport for NEVs total market by Type, CAGR, 2021-2032, (USD Million)

Global Solar PV Carport for NEVs total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Solar PV Carport for NEVs market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BYD (China), Longi (China), Paired Power (USA), Sumitomo (Japan), JinkoSolar (China), SunPower (USA), Trina Solar (China), Solar Electric (USA), Lumos Solar (USA), Orion Carport (USA), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Solar PV Carport for NEVs market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years

2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Solar PV Carport for NEVs Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solar PV Carport for NEVs Market, Segmentation by Type:

?100kW

100-500kW

Others

Global Solar PV Carport for NEVs Market, Segmentation by Parking Space:

1-10 Parking Spaces

11-20 Parking Spaces

Others

Global Solar PV Carport for NEVs Market, Segmentation by Charging Current:

AC Charging Solar Carport

DC Charging Solar Carport

Global Solar PV Carport for NEVs Market, Segmentation by Application:

Residential

Commercial

Others

Companies Profiled:

BYD (China)

Longi (China)

Paired Power (USA)

Sumitomo (Japan)

JinkoSolar (China)

SunPower (USA)

Trina Solar (China)

Solar Electric (USA)

Lumos Solar (USA)

Orion Carport (USA)

Schletter (Germany)

Antaisolar (China)

Kseng Solar (China)

Key Questions Answered

1. How big is the global Solar PV Carport for NEVs market?
2. What is the demand of the global Solar PV Carport for NEVs market?
3. What is the year over year growth of the global Solar PV Carport for NEVs market?
4. What is the total value of the global Solar PV Carport for NEVs market?
5. Who are the Major Players in the global Solar PV Carport for NEVs market?
6. What are the growth factors driving the market demand?

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